

U.S. ENVIRONMENTAL PROTECTION AGENCY
 POLLUTION/SITUATION REPORT
 Jacamar Fire Response - Removal Polrep
 Final Removal Polrep



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region V**

Subject: POLREP #6
 Final
 Jacamar Fire Response
 C55Z
 Springboro, OH
 Latitude: 39.5641330 Longitude: -84.2443399

To: Mindy Clements, U.S. EPA

From: Steven Renninger, On-Scene Coordinator

Date: 4/14/2015

Reporting Period: March 21 to April 6, 2015

1. Introduction

1.1 Background

Site Number:	C55Z	Contract Number:	
D.O. Number:	152	Action Memo Date:	3/17/2015
Response Authority:	CERCLA	Response Type:	Emergency
Response Lead:	EPA	Incident Category:	Removal Action
NPL Status:	Non NPL	Operable Unit:	
Mobilization Date:	2/13/2015	Start Date:	2/13/2015
Demob Date:	4/6/2015	Completion Date:	4/6/2015
CERCLIS ID:		RCRIS ID:	
ERNS No.:		State Notification:	
FPN#:		Reimbursable Account #:	

1.1.1 Incident Category
 Emergency Response

1.1.2 Site Description

On February 4, 2015 at 10:47 a.m. the Clearcreek Fire District responded to an automatic fire alarm located at a private residence on Jacamar Court in the City of Springboro, Ohio. Upon arrival at the scene fire crews discovered a working structure fire in a single story residential house with a basement. An in-ground swimming pool is located behind the house. Fire department personnel worked for several hours to contain the fire and were challenged by the extremely large amount of contents inside the house. After the fire was extinguished, fire investigators began to evaluate the scene to determine where and how the fire started.

The Ohio EPA, Insurance Fire Investigation Team, and local fire department documented a large quantity of unknown chemicals in the residence. On February 9, 2015, a shock sensitive chemical ignited at the property after a pile of debris was shifted during the fire investigation. Following the chemical fire, Ohio EPA requested EPA assistance at the Site.

The residential Site encompasses an area of approximately 2,500 square feet. A small portion of the 1,656 square foot structure remained standing. The in-ground swimming pool was filled with liquid and fire debris. Piles of contaminated debris are present on Site with a majority of the piles partially buried. An exclusion zone was created around the swimming pool, structural remains of the home, and burned debris piles. The site is currently delineated by a chain link fence and posted with "No Trespassing" signs.

1.1.2.1 Location

The site is located on private property on Jacamar Court in Springboro, Warren County, Ohio. The geographical coordinates are 39.5641330, -84.2443399.

The east-facing house is situated on a 0.55 acre lot located in a cul-de-sac. An in-ground pool is located behind the house, on the west side of the property.

The site is located in a residential area, with residences located within 200 feet to the northeast, east, and south of the site. The site is bounded to the northwest and west by a wooded area. Further northwest is a tributary that connects to Clear Creek, with residential and wooded areas beyond. Access to the site as well as adjacent and nearby properties has been granted to EPA by the respective private land owners.

1.1.2.2 Description of Threat

There are numerous containers of unknown chemicals present at the site. In an interview with a fire investigator, the property owner admitted that hazardous materials, were stored in the basement of the house. An unknown amount of chemicals were released during the fire and firefighting measures. Fire water run-off and chemicals potentially entered the swimming pool behind the house. Many containers of unknown chemicals remain on the site, buried in debris. The chemicals on the property were impacted by the fire, and therefore require specialized resources to safely remove them from the site for off-site disposal.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

EPA OSC Renninger, Ohio EPA OSC Dale Farmer, Ohio EPA OSC Bill Lohner, EPA's START contractor, and representatives from Warren County Emergency Services, Clearcreek Fire District, and Fire Science Investigations performed a site reconnaissance on February 10, 2015.

Numerous containers of unknown chemicals were observed throughout the site. Visible containers range in size from quart jars to half-gallon jars. Many containers are spilled, broken, or otherwise destroyed. Many containers were partially buried, with only small portions of containers visible. Many containers appeared to have no, or illegible labels.

The swimming pool was observed to be filled with liquid and debris and contained chemical runoff from the fire and firefighting measures. A runoff migration pathway was observed in the northwestern portion of the site. The pathway appears to lead down an embankment toward a stream. The terrain around the stream is wooded and steep.

On February 10, 2015, approximately 45 containers of chemicals were segregated in the driveway of the house by Clearcreek Fire District, having been encountered and removed from debris piles during the initial portion of the fire investigation.

Elevated levels of volatile organic compounds (VOCs) were detected around debris piles throughout the site and near the chemical containers segregated in the driveway. A chain link fence surrounds the site, including the remaining structure, the debris piles, and the swimming pool. A strong chemical odor is present within the building footprint. Air monitoring was conducted around the perimeter of the site. No deflections from background levels were observed outside of the fence line.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

There are numerous containers of unknown chemicals present at the site within the fire debris. In an interview with a fire investigator, the homeowner admitted that hazardous materials, including solvents and lab chemicals, were stored in the basement of the house.

An unknown amount of chemicals were released during the fire and firefighting measures. Chemical runoff traveled overland potentially infiltrating surface soil and surface water in the process. Chemical spillage also entered the swimming pool behind the house.

Many containers of unknown chemicals remain on the site, buried in debris. The chemicals on the property were impacted by the fire, and therefore require specialized resources to safely remove them from the site for proper off-site disposal. On February 11, 2015, the property owner and insurance informed EPA that they did not have the resources to conduct the removal of chemicals and contaminated debris from the property for off-site disposal. In consideration of these factors, the EPA initiated an emergency response to address the potential risk of explosion, fire, and further release of hazardous substances to the environment.

A Unified Command has been established with EPA, Ohio EPA, Clearcreek Fire District, Springboro Police Department, Warren County Combined Health District, Warren County Emergency Management Agency, and the City of Springboro. Coordinating agencies can be found in Section 3. Unified Command meetings were conducted on February 11, 13, 17, 23, March 3 and 17, 2015 at the Springboro City Building. Media briefings were held on February 13, February 17, and March 3, 2015. A public meeting with nearby property owners was conducted on February 17, 2015.

EPA initiated mobilization of equipment and personnel on February 13, 2015. An Emergency Contingency Plan for the site was finalized on February 13, 2015. The site HASP, AMP, and Explosives Contingency Plan were finalized on February 16, 2015. Segregation of fire debris and chemicals was initiated on February 17, 2015.

Bulk segregation of the fire debris and chemicals was achieved on March 6, 2015. Waste characterization samples were analyzed the week of March 9, 2015 at a fixed-base laboratory. Air monitoring is being conducted at the site within the exclusion zone, at the site perimeter, and on adjacent properties. A security guard is present at the site during all non-working hours.

2.1.2 Response Actions to Date

See POLREP 1 for actions between February 10 and 14, 2015.

See POLREP 2 for actions between February 15 and 20, 2015.

See POLREP 3 for actions between February 21 and 27, 2015.

See POLREP 4 for actions between February 28 and March 6, 2015

See POLREP 5 for actions between March 7 and 20, 2015

March 21-23, 2015: No on-site work. Off-shift site security continued. Awaiting laboratory analytical results for waste characterization samples of waste and ash waste streams.

March 24, 2015: EQM continued removal of structure foundation remaining on site due to chemical contamination. Five roll-off boxes containing concrete debris were transported off-site for disposal. Air monitoring continued by EPA START at the site perimeter. No deflections from background readings were observed. EPA START performed screening of soil samples for VOCs and metals to determine if contamination was present following pool and foundation removal. Surface soil was removed in 6-inch lifts until background readings were observed in screening results for soil samples. A Unified Command meeting was conducted at the Springboro City Building at 1500 hours. Clearcreek Fire Department contacted neighboring residents of Jacamar Court to update them on site progress and upcoming schedule for site work. Analytical results were received for waste characterization and disposal approval for waste and ash waste streams. Soil/ash waste was determined to be non-hazardous for off-site disposal parameters. Off-shift site security continued.

March 25, 2015: EQM performed grading of the former foundation area to the former pool area. Air monitoring continued by EPA START at the site perimeter. No deflections from background readings were observed. EPA START continued screening of soil samples in and around site. No deflections from background readings were observed in screening results for soil samples. Off-shift site security continued.

March 26, 2015: EQM completed removal of non-hazardous soil/ash debris from the site for off-site disposal. Six 24-ton dump trucks were loaded with soil/ash debris and transported off-site for disposal. Air monitoring continued by EPA START at the site perimeter. No deflections from background readings were observed. Air monitoring was terminated following disposal of non-hazardous soil/ash waste. EPA START initiated demobilization of air monitoring equipment. EPA START continued screening of soil samples in and around the site. No deflections from background readings were observed in screening results for soil samples. Off-shift site security continued.

March 27, 2015: EQM completed removal of the seven cubic yard Gaylord boxes of Flammable solid, corrosive waste; the boxes were transported off-site for disposal. EPA START performed screening for VOCs and metals in the concrete driveway area. EQM initiated removal and off-site transportation and disposal of the concrete driveway area due to mercury contamination. Six roll-off boxes containing concrete debris were transported off-site for disposal. EQM continued grading of the site. Off-shift site security continued.

March 28 - 29, 2015: Allstate Insurance removed the temporary perimeter fence around the site. No additional on-site work. Off-shift site security continued.

March 30, 2015: EQM completed removal and off-site transportation and disposal of the concrete driveway area. EQM completed grading of the site. Two roll-off boxes containing concrete debris were transported off-site for disposal. EQM completed regrading of the site. Following completion of waste removal and site grading, EPA START performed surface soil screening for VOCs and metals at 45 locations on the site. Screening results did not indicate the presence of VOCs and metals contamination in the surface soil. EPA START collected a sample from the location of the former building foundation and submitted it to a fixed-base laboratory for analysis. EQM initiated decontamination and demobilization of equipment. Off-shift site security continued.

March 31, 2015: EQM continued decontamination and demobilization of equipment. EPA START completed demobilization of equipment. Off-shift site security continued.

April 1, 2015: EQM completed demobilization of equipment with site trailers. Off-shift site security was terminated.

April 2, 2015: No on-site work.

April 3, 2015: No on-site work. Received analytical results for soil sample collected from building foundation, classifying the sample as non-hazardous.

April 4, 2015: EQM performed hydro-seeding of site for stabilization of surface and erosion control.

April 5, 2015: No on-site work.

April 6, 2015: EPA START performed post-work documentation of site.

2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

The private property owner has stated that he is financially unable to perform the emergency removal.

The private property owner's insurance company has stated that they cannot cover the cost of removal action under the homeowner's insurance policy.

2.1.4 Progress Metrics

<i>Waste Stream</i>	<i>Medium</i>	<i>Quantity</i>	<i>Manifest #</i>	<i>Treatment</i>	<i>Disposal</i>
Non-Hazardous Debris (fire debris)	Solid	660 cubic yards	152001 - 152122	D Landfill	Waste Mang Stoney Hollow Landfill

<i>Waste Stream</i>	<i>Medium</i>	<i>Quantity</i>	<i>Manifest #</i>	<i>Treatment</i>	<i>Disposal</i>
Compressed Gas Cylinders	Solid	7 cylinders	N/A	N/A	Weiler Welding
Lab Pack chemicals	Liquid:Solid	9 drums	013352801JJJ	Treatment	EQ Detroit
Lab Pack chemicals	Liquid:Solid	1 drum	013352942JJJ	Treatment	Michigan Disposal
Lab Pack	Gas	1 cylinder	BOL-1	Treatment	EQ Detroit
Propane Cylinder	Gas	1 cylinder	BOL-2	Recycle	EQ Detroit
Non-Hazardous Water	Liquid	12,826 gallons	150313-0056 - 0058	Treatment	Valicor
Concrete Debris	Solid	260 tons	7753-7766	D Landfill	Waste Mang Stoney Hollow Landfill
Soil/Ash	Solid	144 tons	152123-152128	D Landfill	Waste Mang Stoney Hollow Landfill
Flammable Solid, Corrosive	Solid	7 cubic yard boxes	013352664JJJ	Treatment	EQ Detroit

2.2 Planning Section

2.2.1 Anticipated Activities

No further action

2.2.1.1 Planned Response Activities

No further action

2.2.1.2 Next Steps

No further action

2.2.2 Issues

EPA completed removal action on April 6, 2015

2.3 Logistics Section

Demobilization of equipment and personnel was completed on April 6, 2015.

The City of Springboro has provided use of their City Building for Unified Command meetings and support.

2.4 Finance Section

2.4.1 Narrative

EPA is funding the removal of chemicals and contaminated debris from the property.

The accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

2.5 Other Command Staff

2.5.1 Safety Officer

OSC Renninger served as the Safety Officer with START and EQM each providing an Assistant Safety Officer.

EQM prepared a site-specific Health & Safety Plan.

2.5.2 Liaison Office

Ginny Narsete, EPA CIC, is serving as liaison officer.

2.5.3 Information Officer

Unified Command Media Briefings were conducted on February 13, February 17, February 23, March 3, March 17, and March 24.

3. Participating Entities

3.1 Unified Command

Unified Command was established with EPA, Ohio EPA, Clearcreek Fire District, Springboro Police Department, City of Springboro, Warren County Combined Health District, Warren County EMA

3.2 Cooperating Agencies

The following local, county, state, and federal agencies are providing support:

Greater Cincinnati Hazardous Materials Unit
Warren County Prosecutor's Office
Butler County Sheriff's Office Bomb Squad
State Fire Marshal's Office
FBI

4. Personnel On Site

The following personnel were on-site at various times throughout this reporting period:

US EPA - 1 (OSC)

Ohio EPA - 0

START - 2

ERRS - 5 (including off-shift security)

5. Definition of Terms

AMP	Air Monitoring Plan
CIC	Community Involvement Coordinator
EMA	Emergency Management Agency
EQM	Environmental Quality Management, Inc
ERRS	Emergency and Rapid Response Services
HASP	Health and Safety Plan
OSC	On-Scene Coordinator
PCBs	Polychlorinated Biphenyl
START	Superfund Technical Assistance and Response Team
SVOCs	Semivolatile Organic Compounds
VOCs	Volatile Organic Compounds

6. Additional sources of information

6.1 Internet location of additional information/report

<http://www.epaosc.org/jacamarfirerresponse>

6.2 Reporting Schedule

Pollution Report #6 is the final POLREP.

7. Situational Reference Materials

All situational reference materials will be uploaded to <http://epaosc.org/jacamarfirerresponse>.

